

## 8 Port VGA / Component /S-Video / Composite Switch with Audio

### User's Guide



Models  
VGA-VS-8X1



© 2008 Avenview Inc. All rights reserved.

The contents of this document are provided in connection with Avenview Inc. ("Avenview") products. Avenview makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice. No license, whether express, implied, or otherwise, to any intellectual property rights is granted by this publication. Except as set forth in Avenview Standard Terms and Conditions of Sale, Avenview assumes no liability whatsoever, and disclaims any express or implied warranty, relating to its products including, but not limited to, the implied warranty of merchantability, fitness for a particular purpose, or infringement of any intellectual property right.

Reproduction of this manual, or parts thereof, in any form, without the express written permission of Avenview Inc. is strictly prohibited.

## Table of Contents

Section 1: Getting Started .....	3
1.1 Important Safeguards .....	3
1.2 Safety Instructions .....	3
1.3 Regulatory Notices Federal Communications Commission (FCC) .....	4
1.4 Introduction .....	4
1.5 Features .....	5
1.6 Package Contents.....	5
1.7 Before Installation.....	5
1.8 Panel Description .....	6
1.9 IR Remote Control.....	7
Section 2: Installation.....	8
2.1 Pin Definition .....	8
Section 3: Specifications.....	9

## Section 1: Getting Started

### 1.1 Important Safeguards

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

#### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - Any damage of the product due to shipment.
  - Removal or installation of the product.
  - Causes external to the product, such as electric power fluctuation or failure.
  - Use of supplies or parts not meeting our specifications.
  - Normal wear and tear.
  - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

### 1.2 Safety Instructions

The VGA-VS-8X1 8x1 VGA/Component/S-Video/Composite Switch with Audio has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, VGA-VS-8X1 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

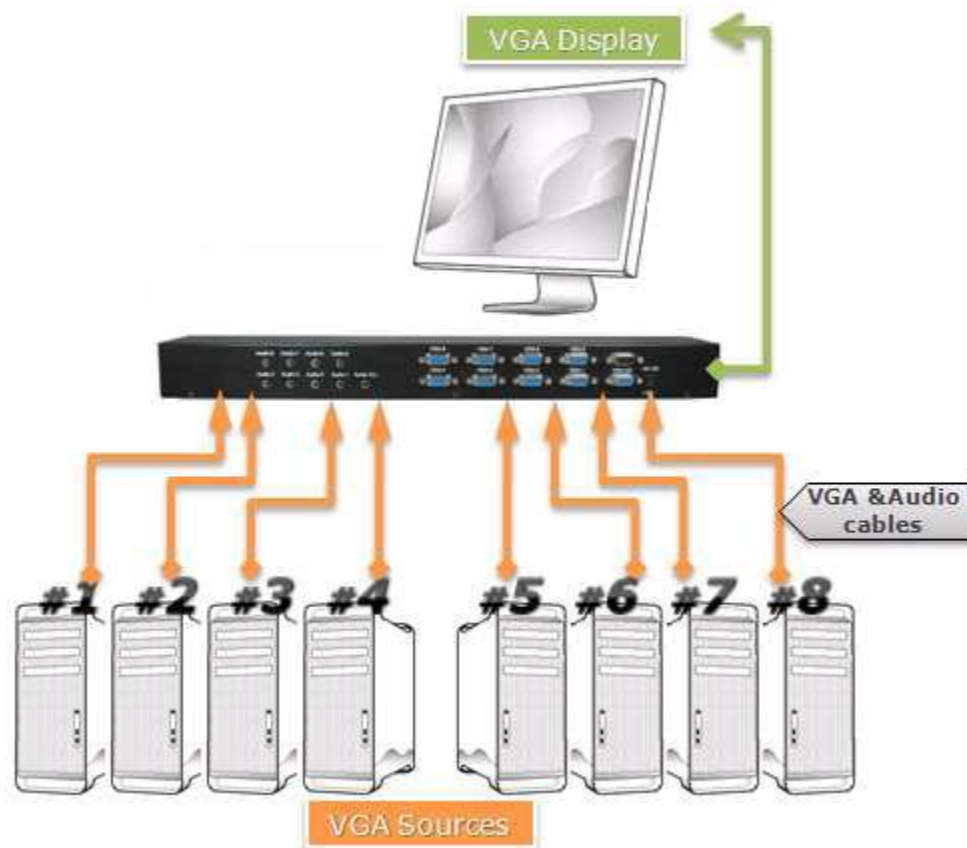
- Do not dismantle the housing or modify the module.
- Dismantling the housing or modifying the module may result in electrical shock or burn.
- Refer all servicing to qualified service personnel.
- Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Have the module checked by a qualified service engineer before using it again.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

### 1.3 Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

### 1.4 Introduction

The Avenview **VGA-VS-8X1 8x1 VGA/Component/S-Video/Composite Switch with Audio** receives and amplifies up to 8 VGA inputs, perfectly switches the desired input to the VGA equipped monitor or receiver. The switch supports VGA video up to 350MHz. The switch re-transmits the signal without degradation and the longest transmission is up to 65m (210ft). Therefore, VGA-VS-8X1 offers the most convenient and cost effective means for swift switch of high quality PC graphics and HDTV videos with crystal clear audio in the market. With equipped audio switch, VGA-VS-8X1 is ideal solution for boardroom, showroom, and exhibition. The control of VGA-VS-8X1 is versatile and easy through the IR remote control, the push button on front panel, or the RS-232 control on rear panel.



## 1.5 Features

- VGA / Component / S-Video / Composite Switch with 350MHz bandwidth
- Up to 8 graphics / video inputs
- LED indication
- Automatic detection of the VGA / Component input
- Amplified video output with transmission length up to 65m (210 feet)
- Multiple control by IR remote, push button, and RS232
- 1U Rack Mountable
- Easy installation

## 1.6 Package Contents

Before you start the installation of the converter, please check the package contents.

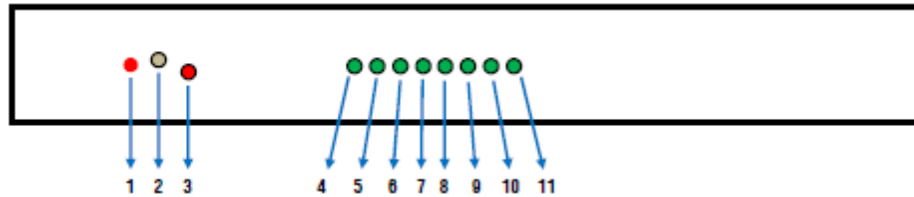
- |  |     |
|--|-----|
| - VGA-VS-8X1                                     | x 1 |
| - IR Remote Control                              | x 1 |
| - 9 x VGA to Component breakout cable (optional) | x 1 |
| - Power Adapter (+5VDC)                          | x1  |
| - User's Manual                                  | x1  |

## 1.7 Before Installation

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.

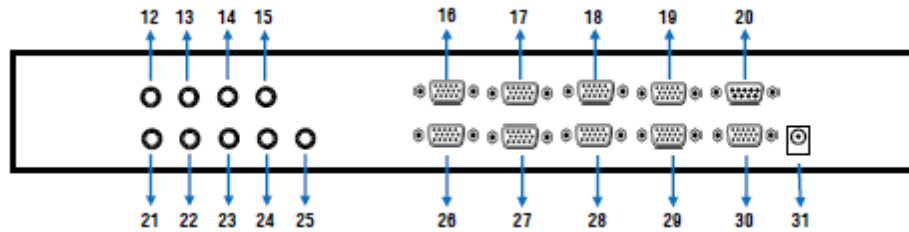
## 1.8 Panel Description

### FRONT PANEL



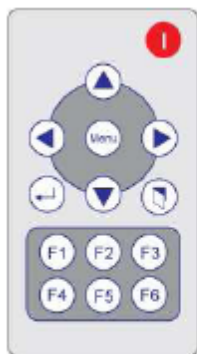
1. Push Button for Input Switch	2. Infrared Sensor
3. LED Indicator for Power	4. LED Indicator for VGA Input #1
5. LED Indicator for VGA Input #2	6. LED Indicator for VGA Input #3
7. LED Indicator for VGA Input #4	8. LED Indicator for VGA Input #5
9. LED Indicator for VGA Input #6	10. LED Indicator for VGA Input #7
11. LED Indicator for VGA Input #8	

### REAR PANEL



12. 3.5mm Audio Socket for Audio Source #8	13. 3.5mm Audio Socket for Audio Source #7
14. 3.5mm Audio Socket for Audio Source #6	15. 3.5mm Audio Socket for Audio Source #5
16. VGA Input Source #8	17. VGA Input Source #7
18. VGA Input Source #6	19. VGA Input Source #5
20. RS232 Control Port	21. 3.5mm Audio Socket for Audio Source #4
22. 3.5mm Audio Socket for Audio Source #3	23. 3.5mm Audio Socket for Audio Source #2
24. 3.5mm Audio Socket for Audio Source #1	25. 3.5mm Audio Socket for Audio Output
26. VGA Input Source #4	27. VGA Input Source #3
28. VGA Input Source #2	29. VGA Input Source #1
30. Selected VGA Output	31. 5V DC Power Jack

## 1.9 IR Remote Control



 : IDLE	 : To the right	 : Reserved
 : Reserved	 : Channel 1	 : Reserved
 : Reserved	 : Channel 2	 : Reserved
 : Reserved	 : Channel 3	 : Reserved
 : To the left	 : Channel 4	



## Section 2: Installation

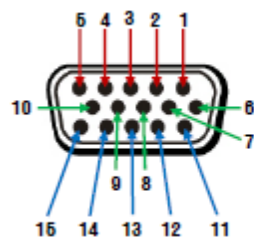
Follow these instructions for installation of VGA-VS-8X1:

1. Ensure VGA-VS-8X1 and all other source devices are turned off
2. Connect VGA / Component / S-Video / Composite display / projector to the output of VGA-VS-8X1
3. Connect the VGA / Component / S-Video / Composite source devices to input of VGA-VS-8X1
4. Plug power adapter to 5V DC power jack of VGA-VS-8X1
5. Use IR Remote control or push button on the front panel to switch between inputs, or connect a computer through RS232 port to switch the input sources.

### 2.1 Pin Definition

#### VGA

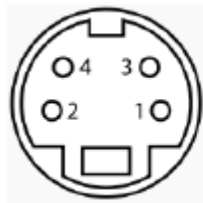
---



Pin 1	Pr / Red	Pin 9	+5 V
Pin 2	Y / Green / Composite	Pin 10	Ground
Pin 3	Pb / Blue	Pin 11	Ground
Pin 4	Ground	Pin 12	Reserved
Pin 5	Ground	Pin 13	Horizontal sync.
Pin 6	Ground	Pin 14	Vertical sync.
Pin 7	Ground	Pin 15	Reserved
Pin 8	Ground		

#### S-Video

---



Pin 1	Ground (Y)
Pin 2	Ground (C)
Pin 3	Y - Intensity (luminance)
Pin 4	C - Color (Chrominance)



### Section 3: Specifications

Item	Description
<b>Model</b>	VGA-VS-8X1
<b>Supported Input / Output</b>	VGA / Component / S-Video / Composite
<b>Video Bandwidth</b>	350 MHz
<b>Supported Resolutions</b>	1080p (60), WUXGA (1920x1200x60Hz), UXGA (1600x1200x60Hz)
<b>Transmission</b>	HD (720p/1080i) up to 65 meter (210 feet)
<b>Audio Support</b>	Analog Stereo
<b>Input</b>	8 x VGA (Component / S-Video / Composite through adapters) 4 x 3.5mm Analog Stereo Audio 1 x RS232
<b>Output</b>	1 x VGA (Component / S-Video / Composite through adapters) 1 x 3.5mm Analog Stereo Audio
<b>VGA Connector</b>	HD-15 (15 pin D-Sub female)
<b>RS232 Connector</b>	DE-9 (9 pin D-Sub female)
<b>Audio Connector</b>	3.5mm Earphone Jack for Analog Stereo Audio
<b>Input Selection</b>	IR Remote / Push Button / RS232
<b>Dimensions</b>	1' 5.3" x 2.6" x 1.7" (L x W x H)
<b>Weight</b>	2.4 lbs
<b>Power Supply</b>	5V 4A DC
<b>Power Consumption</b>	7 Watts (max)
<b>Operating Temperature</b>	0~40°C [32~104°F]
<b>Storage Temperature</b>	-20~60°C [-4~140°F]
<b>Relative Humidity</b>	20~90% RH [no condensation]



**Disclaimer**

While every precaution has been taken in the preparation of this document, Avenview Inc. assumes no liability with respect to the operation or use of Avenview hardware, software or other products and documentation described herein, for any act or omission of Avenview concerning such products or this documentation, for any interruption of service, loss or interruption of business, loss of anticipatory profits, or for punitive, incidental or consequential damages in connection with the furnishing, performance, or use of the Avenview hardware, software, or other products and documentation provided herein.

Avenview Inc. reserves the right to make changes without further notice to a product or system described herein to improve reliability, function or design. With respect to Avenview products which this document relates, Avenview disclaims all express or implied warranties regarding such products, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement.